

## DESCRIPTION

Garland's Weatherking adhesives are high-performance, cold-process modified adhesives designed for use in cold-applied roofing systems. The Weatherking Membrane Adhesive serves as an interply adhesive, delivering strong, flexible bonding between layers of Garland approved membranes. For flashing details, Weatherking Flashing Adhesive provides durable adhesion and watertight protection in critical areas on a vertical.

## MATERIALS

The materials used in the system may include Weatherking Membrane Adhesive or Flashing Adhesive combined with approved base and cap sheets.

## APPLICATION

### Equipment

Tools needed to install Garland's Weatherking system:

- Suitable trowel for applying adhesive to flashing details if necessary
- Roofer's knife with hooked blade
- Long-handled (standing) roller with 1/8"-1/4" (3.175 - 6.35 mm) nap for applying primer 1/8" (3.175 mm) nap for smooth surfaces; 1/4" (6.35 mm) nap for more porous surfaces
- Long-handled (standing) squeegee that has a 12"-16" (30.48 - 40.64 cm) notch blade for applying cold adhesive
- Push broom to press membrane into adhesive
- Weights for edges or corners that potentially curl up when the sheets have not had long enough to relax

### Considerations

- Do not install if rain is expected within 24 hours.
- Store the Weatherking materials properly to protect it before use. Keep dry and above 70°F (21°C) for 24 hours prior to application
- Leave the lids on the product until ready to use.
- Do not apply Weatherking membrane adhesive that has been improperly stored or exposed to the elements.
- IF THE MATERIAL ISN'T BONDING...STOP THE APPLICATION!
- Refer to the Weatherking roof systems' specification for complete requirements
- Substrates must be free of dust, dirt, oil, debris and moisture
- Primer, if used, must be applied at the specified rate and must be allowed to thoroughly dry.

- Work with manageable lengths of base and cap for the particular job. Where appropriate, cut rolls into 1/3 or 1/2 roll lengths and allow material to relax prior to installation
- Use caution with the weighted roller at end lap areas... don't squeeze out too much adhesive
- Ensure ambient temperatures are 40°F (5°C) and rising and ambient temperature is 6 fahrenheit degrees (3 celsius degrees) and rising above the dew point temperature.

## INSTALLATION

### (a) Base Sheet Installation Over Nailable Substrate

1. Beginning at the low point of the roof, fasten one-ply of approved base sheet to the nailable substrate.
2. Start with an appropriate roll width (1/3 or 1/2 roll width) to accommodate off setting of side laps of subsequent layers of base sheet. Install so that no side laps are against the flow of water.
3. Fasten base sheet with a fastening pattern provided through a wind uplift calculation. (Check specification for exact fastening pattern)
4. Overlap base sheet side laps 4" (10.16 cm) and end laps 8" (20.32 cm). Offset end laps a minimum of 3' (0.914 m).
5. Additional plies of base sheet are to be installed as specified in the section below.

**Note: Do not leave fastened base exposed; cover in the same day with the base sheet and/or cap sheet.**

### (b) Installation Over Approved Roof Board

Approved Roof Board: 1/2" (12.7 mm) min. G-P Gypsum DensDeck, DensDeck Prime®, StormX, DEXcell FA Glass Mat, Securock, high density asphalt coated wood fiberboard.

1. Sweep or blow away any dust, dirt or sand particles that could interfere with adhesion.
2. Tape all insulation joints prior to applying Weatherking Membrane Adhesive to keep material from seeping in between the boards (duct tape can be used for taping insulation joints).
3. Relax base sheet prior to application (until sheet lies flat) and work with no more than 18' (5.5 m) lengths. This will allow the sheet to sit down into the adhesive.
4. Snap chalk lines for area of application to prevent material from drying out in areas that material will not be applied immediately.
5. Pour Weatherking onto the roof at a rate 2-2.5 gallons per 100 sq. ft. (0.82-1.02 l/m<sup>2</sup>) for the base layer of membrane adhesive to the top insulation board.

6. Work outwards to eliminate voids. Coverage based on a smooth surface, uneven surfaces or more porous roof boards will increase the coverage rate.
7. Start base sheet application at the low point of the roof with appropriate roll width to offset side laps 18" (45.72 cm) from side laps of base sheet. Install flush to roof edge if over base sheet, otherwise turn the base sheet over the fascia minimum 2" (5.08 cm) and nail 8" (20.32 cm) o.c. for perimeter flashing details you must extend the base sheet up to a minimum of 8" (20.32 cm). Design layout so that no side laps are against the flow of water.

**Note:** On smaller roofs, cut rolls into manageable lengths.

### (c) Cap Sheet Installation

1. Before installing the cap sheet, you must sweep or blow away any dust, dirt or debris off the base sheet, as this will interfere with adhesion.
2. Relax cap sheet prior to application no more than 18' (5.5 m) lengths. This will allow the sheet to sit down into the adhesive.
3. Snap chalk lines for area of application to prevent material from drying out in areas that material will not be applied immediately.
4. Pour Weatherking Membrane Adhesive onto the base sheet at a rate 2-2.5 gallons per 100 sq. ft. (0.82-1.02 l/m<sup>2</sup>).

**Note:** Once the membrane has had a chance to bond, check all laps and joints for full adhesion. If the membrane can be lifted at any area it is not properly adhered. A seam probing tool can be helpful to check for small voids at laps. If necessary, apply Weatherking Flashing Adhesive to seal any small un-bonded areas if they exist.

### (d) Flashing Application

Weatherking Flashing Adhesive is ready to use immediately. Using the width of the roll as the maximum length of the flashing membrane, precut the flashing membrane pieces to the proper height, extending out onto the field of the roof a minimum of 6" (15.24 cm) for the base ply and 9" (22.86 cm) for the cap ply. All cutting shall be completed on a piece of plywood in order to prevent cutting the roof membrane. All flashing work shall start at the low point of the roof. The first flashing piece installed shall be one half the normal length of the flashing pieces in order to stagger the laps with the field membrane laps.

1. At all vertical and other flashing details, install one of the approved base sheets followed by one of the approved smooth or mineral cap sheets over the already installed field plies.
2. Using an 1/8" (3mm) notched trowel, apply Weatherking Flashing Adhesive to the substrate at a rate of 2-3 gal./100 sq. ft. (0.82-1.2 l/m<sup>2</sup>).
3. Extend flashing adhesive application onto the existing field plies a minimum of 6" (15.24 cm) for the base ply and 9" (22.86 cm) for the cap ply.

4. On a separate piece of plywood or base sheet, turn the precut flashing pieces "bottom side up." Trowel the Weatherking Flashing Adhesive at a rate of 2-3 gal./100 sq. ft. (0.82-1.21 l/m<sup>2</sup>) to the entire bottom of the flashing piece with a notched trowel, covering it completely.
5. Pick up the coated flashing membrane and press it into position. Apply hard pressure to the entire surface of the membrane, making sure all air pockets are removed and 100% contact with the substrate is obtained.
6. Once the membrane has had a chance to bond, check all laps and joints for full adhesion. If the membrane can be lifted at any area, it is not properly adhered. A seam probing tool can be helpful to check for small voids at laps. If necessary, apply Weatherking Flashing Adhesive to seal any un-bonded areas if they exist.
7. On all vertical laps, apply a minimum three course application Weatherking Flashing Adhesive at a rate of 1/8-1/4" (3.175 - 6.35 mm) thick with GarMesh® reinforcement.
8. Install the termination bars/flashing details. Bleed out at all overlap edges should be visible to ensure complete contact. The flashing should be mechanically secured at the end of each work day.

**Note:** Application above is designed as a reference. Applicator needs to follow specific details contained in the approved project specifications.

Top Coating/Overcoating - Newly installed membranes utilizing WeatherKing should be allowed to cure for at least 30 days prior to installing any surfacing/coating. Depending on the surfacing specified, use primer as recommended by Garland.

## WEATHER CONDITIONS

Do not attempt application if ice, snow, moisture or dew is present. Bonding substrates must be clean, dry and free of dust or other inhibitors of proper adhesion. Ambient temperature must be 40°F (5°C) or rising through the day. Cooler temperatures will negatively impact the properties of the system. Contact your Garland Sales Representative for proper cold weather applications.

## STORAGE

Store pails and roll goods in their original packaging, indoors on pallets protected from the elements. Weatherking Adhesives needs to be kept at 70°F (21°C) for at least 24 hours prior to application. If stored on the roof, all product needs to be under a tarp at all times. Rolls and containers that are improperly stored or have been warehoused for prolonged periods of time could potentially be damaged or go beyond their shelf life.

For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)

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